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CANADIANA
AUG 11 1980

field crops

RECORD BOOK

UNIT IV
183 ~ 80

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CANADA

4-H MOTTO

"Learn to do by doing"

4-H PLEDGE

I pledge
My HEAD to clearer thinking,
My HEART to greater loyalty,
My HANDS to larger service,
My HEALTH to better living,
For my club, my community and my country

4-H GRACE

(Tune of Auld Lang Syne)

We thank thee, Lord, for blessings great
On this, our own fair land.
Teach us to serve thee joyfully,
With head, heart, health and hand.

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1. **YEAR 19_____**

2. **FIXED CHARGES AGREED UPON AT START OF PROJECT.**

   (a) Rental of land $___________ per hectare.

   (b) Rental of machines.

COST OF TILLAGE OPERATIONS (CUSTOM WORK BASIS)

Type of Operation	Estimated Cost per hectare (no labor)
Plow	
One Way Disc	
Cultivator	
Disc	
Rod Weeder	
Harrow	
Seed Drill	
Swather	
Mower	
Rake	
Spraying	
Combine	
Forage Harvester	
Baler	

Each club should come up with standard prices at the beginning of each year, that the member can use for the cost of land rental and custom machine work done. (These rates will vary from one region to another and from one year to another.) Your District Agriculturalist will be able to give you a list of current rates for your area.

3. **USE OF LAND LAST YEAR**

Fallow, wheat, hay, etc. ______________________________

4. **PREPARATION OF SEEDBED**

Implement Used	Date	Cost of Custom Work

5. **SEED FOR THIS YEAR**

a. Kind ______________________________

b. Variety ______________________________

c. Grade ______________________________

d. Source ______________________________

e. Cost per kilogram ______________________________

f. Total cost $ ______________________________

6. **SEED TREATMENT**

a. Chemical applied ______________________________

b. Rate of application ______________________________

c. How should this treatment assist the crop?

____

d. Cost of materials for treating $ ______________________________

7. **SEEDING**

a. Date of seeding ______________________________

b. Rate of seeding per hectare ______________________________

c. Depth of seeding ______________________________

d. Seeding equipment used ______________________________

e. Quantity of seed used ______________________________

f. Cost of seed used $ ______________________________

g. Cost of custom work $ ______________________________

8. **FERTILIZER** - (Does not apply to control strip in Unit III)

(a) Analysis of fertilizer applied ____________________

(b) Rate applied per hectare ____________________

(c) Method of application ____________________

(d) Amount used ____________________

(e) Date applied ____________________

(f) Cost of fertilizer ____________________

(i) per tonne $ ____________________

(ii) For the project ____________________

9. **WEEDS**

a. Kinds Present	Prevalence (trace, few, numerous, very numerous)

b. Steps Taken to control weeds

____

____

____

____

c. If plot was sprayed -

(i) Name of chemical used ____________________

(e.g. 2-4D ester)

(ii) Cost of chemical used $ ____________________

(iii) Rate of application ____________________

(iv) Date of application ____________________

(v) Cost of custom work $ ____________________

(vi) Weeds that were easily killed by spray	Stage of Maturity

(vii) Weeds that were resistant to spray	Stage of Maturity

10. **GROWTH OF CROP**

a. Date of emergence ____________________

b. Height of grain or forage at following periods after after seeding:

(i) 2 weeks ____________________

(ii) 4 weeks ____________________

(iii) 6 weeks ____________________

(iv) 8 weeks ____________________

(v) Maturity ____________________

c. Date when heading began ____________________

d. Date when crops began to turn color ____________________

e. Date of Maturity ____________________

f. Days from seeding to maturity ____________________

11. **DAMAGE TO CROP**

Kind of Damage	Cause of Damage	Estimated Reduction in yield	Measure taken to combat cause of damage

12. **HARVESTING**

a. Date(s) of cutting or swathing ____________________.

b. Date of threshing or combining ____________________.

c. Yield: ____________ tonnes.

d. Yield converted to hectare basis - ____________ tonnes.

e. Value per tonne $____________________.

f. Cost of custom work $____________________.

13. DISPOSAL OF CROP

	Value per tonne	Value per tonne	Value
Amount sold			
Amount fed			
Straw used			
Amount of grain kept for seed			
Amount on hand			
Total value of crop harvested			

FINANCIAL STATEMENT

YEAR END SUMMARY

COSTS	COST PER HECTARE
Over head or fixed costs:	
1. Rent of land	$__________
2. Taxes and water rates (if applicable)	$__________
OPERATING COSTS:	
1. Cost of seed__________kg at $________per kg	$__________
2. Cost of material for seed treatment	$__________
3. Cost of fertilizer________at $________tonne	$__________
4. Cost of chemical used for weed control	$__________
5. Cost of pest control	$__________
6. Cost of Custom Work	$__________
Fall tillage	$__________
Seedbed preparation	$__________
Seeding	$__________
Spraying	$__________
Swathing	$__________
Combining	$__________
Hauling	$__________
7. Other costs (specify)	
______________________________________	$__________
TOTAL COST PER HECTARE	$==========

RETURNS

RETURNS PER HECTARE

Payments received

1. Date__________price per tonne $________amount $____________
2. Date__________price per tonne $________amount $____________
3. Date__________price per tonne $________amount $____________

Other revenue from plot (ie) straw bales,
pasture, etc. (specify)____________________ $____________

TOTAL RETURNS PER HECTARE $============

STATEMENT OF PROFIT OR LOSS

Total return per hectare $____________

minus total cost per hectare $____________
equal net profit $____________
or net loss $____________

SUMMARY

1. What special problem did you encounter this year?

2. Were there any adverse conditions that affected your returns this year?

3. Do you plan to repeat this Unit next year?

4. If so what crop do you plan to grow?

THE STORY OF MY PLOT

This space is provided for the story of your project. As well as telling the story of your plot, state what, if anything, you learned from this year in 4-H. Be sure to mention the optional projects you undertook in addition to the plot. Include pictures if you have them.

METRIC CONVERSION TABLE

Commonly Used Metric Measures

1 kilometer (km) =1,000 meters
1 square hectare (ha) =10,000 square meters
1 metric ton (tonne) =1,000 kilograms
1 kilogram (kg) =1,000 grams

Converting Metric Measures to English

1 hectare (ha) =2.47 acres
1 kilometer (km) =0.62 miles
1 meter (m) =1.09 yards or 3.28 feet
1 centimeter (cm) =0.39 inches
1 kilogram (kg) =2.2 pounds
1 tonne (t) =1.1 tons or 2204 pounds
1 tonne (t) =36.74 bu. of wheat
=45.83 bu. of barley
=64.84 bu. of oats
=44.09 bu. of rapeseed
=39.37 bu. of rye
=39.37 bu. of flax
1 litre (l) =0.22 gallons
1 kilowatt (kw) =1.34 horsepower

Converting English Measure to Metric

1 acre =0.405 hectares
1 mile =1.61 kilometers
1 foot =0.30 meters
1 inch =2.50 centimeters
1 pound =0.45 kilograms
1 ton =0.91 tonnes
1 bu. of wheat =27.30 kilograms
1 bu. of barley =21.80 kilograms
1 bu. of oats =15.50 kilograms
1 bu. of rapeseed =22.70 kilograms
1 bu. of rye =25.20 kilograms
1 bu. of flax =25.20 kilograms
1 horsepower =.75 kilowatts

Other Conversions You Should Know

1 bu. wheat =60 lb.
1 bu. oats =34 lb.
1 bu. barley =48 lb.
1 bu. rape =50 lb.
1 bu. rye =56 lb.
1 bu. flax =56 lb.

1 kilogram per hectare =0.89 lbs. per acre (approx.)
1 pound per acre =1.12 kilograms per hectare (approx)

If a fertilizer recommendation is given in kilograms per hectare and the machine is calibrated in pounds per acre, set the machine at 10% less than the recommendation and you will obtain the rate that is required.

N.L.C. - B.N.C.
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Alberta
AGRICULTURE
4-H BRANCH